BRUHATH BANGALORE MAHANAGARA PALIKE

Name of work: Improvements of roads and drains SC Colony at Kempapura in ward No.07 Byatarayanapura, Kodigehalli Sub Division.

SL	Description of work	No.	Dimensions			Qty	Rate	Unit	Amount
			L	B	D				
1	2	3	4	5	6	7	8	9	10
1	KSRB 2-2.2:Earth work excavation for foundation of building, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in **ORDINARY soil** not exceeding 1.5m in depth including dressing the bottom and sides of pits and trenches , stacking the excavated soil clear from edges of excavation with lead upto 50m after breaking of clods complete as per specifications and direction of the Engineer-in-charge. Specification. No.KBS 2.1(b)/2.3.5. (P-5, It. No.2.1)								
	Basic rate		148.00						
	Add A.W. 8%		11.84						
	Total		159.84						
	I st main road (Next to shanimahatma Temple)	1	60.00	3.00	0.30	54.00			
	2nd main road	1	76.00	4.00	0.30	91.20			
	1st cross	1	100.00	3.00	0.30	90.00			
	2nd cross	1	85.00	3.00	0.30	76.50			
	Culverts	5	4.00	1.80	0.30	10.80			
					Total:-	**322.50**	159.84	Cum	51549.00
2	**KSRB 4-1.3:** Providing and laying in position plain cement concrete of nominal mix 1:4:8 using **40mm** and down size graded granite metal machine mixed, conrete laid in layers not exceeding 15 cms. Thick well compacted in foundation and plinth, including cost of all materials labour, HOM of machinery, curing complete as per specification . (Pg.No.12, It.4.3)								
	Basic rate		4695.00						
	Add A.W. 8%		375.60						
	Total		5070.60						
	Only for Road cut portion								
	I st main road (Next to shanimahatma Temple)	1	60.00	3	0.15	27.00			
	2nd main road	1	76.00	4	0.15	45.60			
	1st cross	1	100.00	3	0.15	45.00			
	2nd cross	1	85.00	3	0.15	38.25			
	Culverts	5	4	1.8	0.15	5.40			
						161.25	5070.60	Cum	**817634.25**
3	**KSRB 5.3-1:**Providing and constructing granite /trap/basalt size stone masonry in foundation with cement mortar 1:6, stone hammered dressed in courses not less than 20cms hign, bond stones at two m apart in each course including cost of materials, labour, curing etc., complete as per specifications.(P-235. Item No. 5.3)								
	Basic rate		3200.00						

	Add A.W. 8%		256.00						
	Total		3456.00						
	culvert	10	1.8	0.45	0.60	4.86			
						4.86	3456.00	Cum	16797.00
4	Cement concrete pavement. Construction of un-reinfirced plain cement concrete pavement, thickness as per deisgn, over a prepraed sub base with OPC cement or any other type as per clause 1051..2.2 with 25mm and down size graded granite metal coarse aggregates and fine aggregates ,with superplastiser @ 3lts confirming to IS9103-1999 REAFFIRMED-2008, Mixed in a concrete mixer of not less than 0.6 cum capacity and approximate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates inlcuding levelling the form work as per drawing) and spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continous operation including, provision of contraction, expansion, construction operation including longitudinal joints, including groove cutting charges joint filler, sparation menebrane, sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specficatiomn. (Pg No.174, It No.22.6.1)								
	Basic rate		4896.00						
	Add A.W. 8%		391.68						
	Total		5287.68						
	For Raising Drains bottom								
	I st main road (Next to shanimahatma Temple)	1	60.00	0.30	0.10	1.80			
	2nd main road	1	76.00	0.30	0.10	2.28			
	1st cross	1	100.00	0.30	0.10	3.00			
	2nd cross	1	85.00	0.30	0.15	3.83			
	Culverts	5	4.00	1.80	0.15	5.40			
	Roads								
	I st main road (Next to shanimahatma Temple)	1	60.00	3.00	0.10	18.00			
	2nd main road	1	76.00	4.00	0.10	30.40			
	1st cross	1	100.00	3.00	0.10	30.00			
	2nd cross	1	85.00	3.00	0.10	25.50			
						120.21	5287.68	Cum	635606.00
5	Vaccum De-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cst of generator, HOM of machinery screed vibaratory, power floater, blade and disc etc., with all leads and lift. **(P171, It No. 22.7)**								
	Basic rate		90.00						
	Add A.W. 8%		7.20						
	Total		97.20						

	I st main road (Next to shanimahatma Temple)	1	60.00	3.00		180.00			
	2nd main road	1	76.00	4.00		304.00			
	1st cross	1	100.00	3.00		300.00			
	2nd cross	1	85.00	3.00		255.00			
						1039.00	97.20	Sqm	100991.00
6	Providing Groove cutting for width of 5mm to 10mm and depth 80mm - 100mm including cost of cutting machine, generator and HOM of machinery, inlcuding cost of blade, coolant etc., including cleaning of groove and providing sand and hot bitumen fillars and filler metal etc., including cost of all materails, labour, lead and lift charges and all other incidental charges as per drawing and as per specifications for concrete pavement.**(P-175, I No: 22.8.1)**								
	Basic Rate		**115.00**						
	Area Weightage 8%		9.20						
	total		**124.20**						
		40	3.00			120.00			
						120.00	124.20	Rmt	14904.00
7	Providing and fixing 10cms thick pre cast **RCC covering slab** using reinforced cement concrete M20 mix with stone aggregate 20mm and down size including centring shuttering reinforcement and bar bending machine mixed concrette laid in layers not exceeding 15 cm thick wellcompacted cost of all materials labour curing complete as per specfications **(Data Rate Approved)**								
	Data Rate		**1725.80**						
	For covering slab								
	Drain	1.00	145.00	0.60		87.00			
					Total	**87.00**	1725.80	Sqm	150145.00
8	Providing and fixing 20 cm thick pre cast RCC covering slab using reinforced cement concrete M 20 mix with stone aggregate 20 mm and down size including centring shuttering reinforcement and bar bending machine mixed concrete laid in layers not exceeding 15 cm thick wellcompacted cost of all materials labour curing comlete as per specification (Data Rate)								
	Basic rate	=	4402.79						
	Add A.W. 8%	=	0.00						
	Total	=	4402.79						
	Culvert slabs	32	1.80	0.60		34.56			
					Total:-	**34.56**	4190.70	Cum	144831.00
9	KSRB **5.3-1**:Providing ruled pointing of course stone msonry with cement mortar 1:3 20 mm deep, after raking joints to depth of 20 mm nicley lining, including cost of materials, labour, curing etc., complete as per specifications and directions of the engineer-in-charge. (P-112, Item No. 15.8)								

	Basic rate		33.00						
	Add A.W. 8%		2.64						
	Total		35.64						
	Drain	1	145		0.60	87.00			
	Culverts	5	4.00		0.60	12.00			
						99.00	35.64	Sqm	3529.00
10	KSRRB M100-1 Loading and unloading of stone boulder/stone aggregates/ sand/ kanker/ moorum. KSRRB M100-1:Placing dipper at loading point loading with front end loading, dumping turning for return trip, excluding time for haulage and return trip complete as per specification MORTH Chapter 1 (Page 118, item No. 17.1)								
	Qty vide item no.1					322.50	94.82	Cum	30580.00
	Basic rate	=	62.20						
	Conveying charges for 10Kms								
	Rs. 2.00 Tonne Km.								
	Average Weight of earth 1.28 Tonne/Km.								
	For 10 Km								
	Rs.2.00X1.28TonneX10Km	=	25.60						
	Total	=	87.80						
	Add Area Weightage 8%	=	7.02						
			94.82						
11	Sub total								1966566.25
12	Add 8% KRIDL CHARGES								157325.30
13	Add 1% third party inspection								19665.66
14	Miscellaneous and rounding off								6442.79
							Total:-		2150000.00

Certificate:-

1)This is certified that the work spot comes under BBMP limits only.

2)The rates are as per CSR of 2015-16 year of PWD Bangalore Circle.

3)The Provisions made in estimate are adequate and necessary.

M.N.D
Asst.Engineer
Ward no.7
B.B.M.P.

Asst.Exe.Engineer
Kodigehalli Sub-division
B.B.M.P.

Executive.Engineer
Byatarayanapura division
B.B.M.P.
25/7/16.

Administrative Approval
Accorded For 21.50 lakh Rs
Head of A/C P-1878
CER NO : 11 Dt: 29.07.16

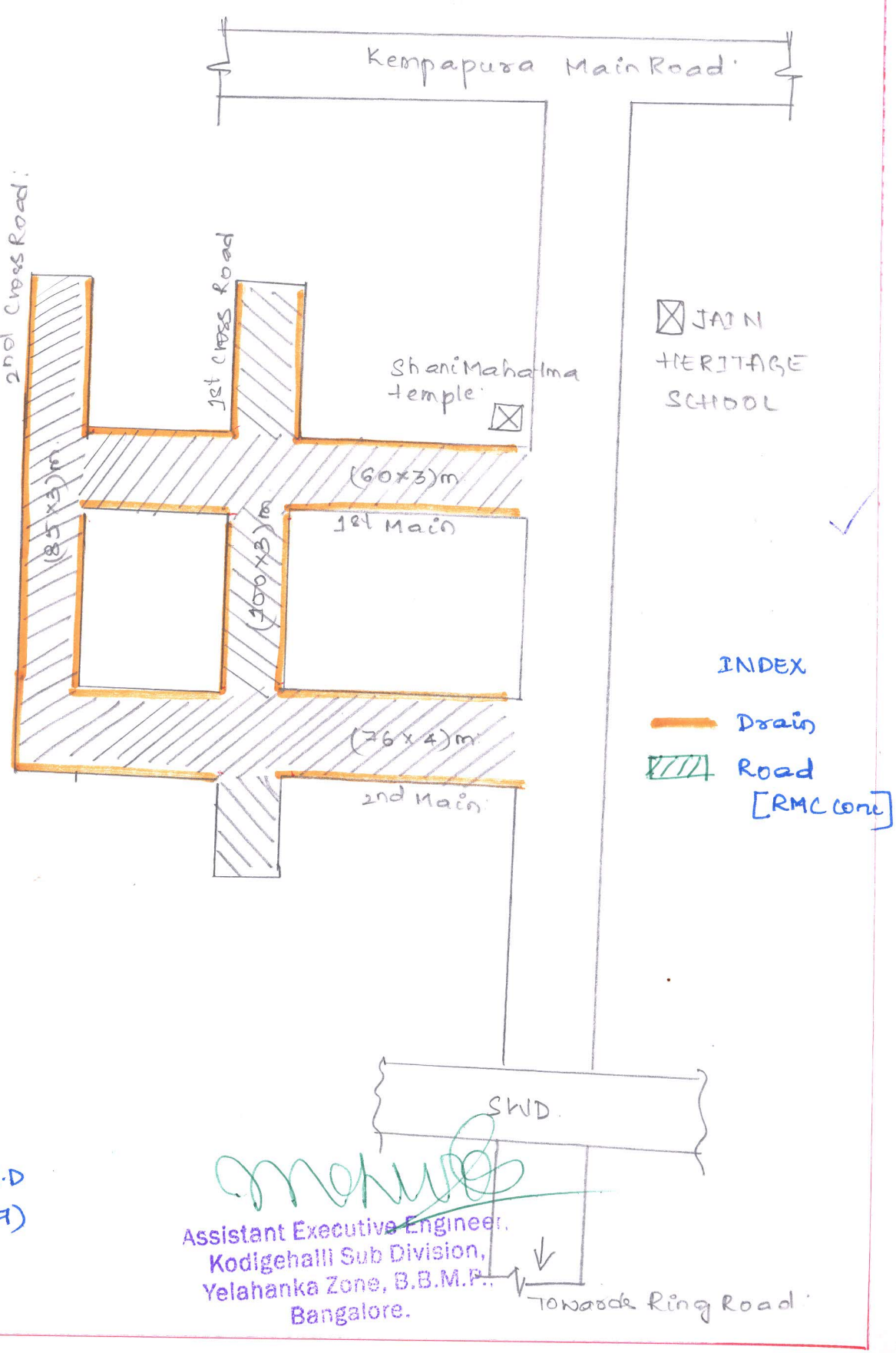
TA CE (YNK)

Technical Sanction
Accorded For 21.50 lakh Rs.
Head of A/C P1878
CER NO : 20 Dt: 29.7.16

TA CE (YNK)

Name of Work:- Improvements of roads and drains SC colony at Kempapura in Ward No.07, Byatarayanapura Kodigehalli Sub-division.

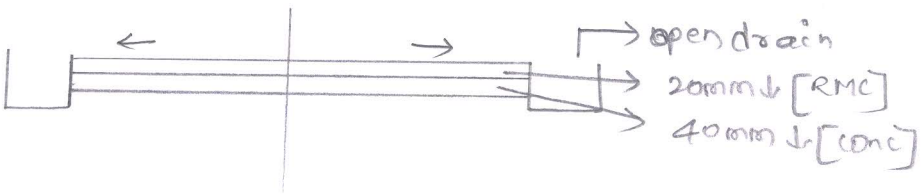
Est cost:- Rs. 21.50 lakhs.



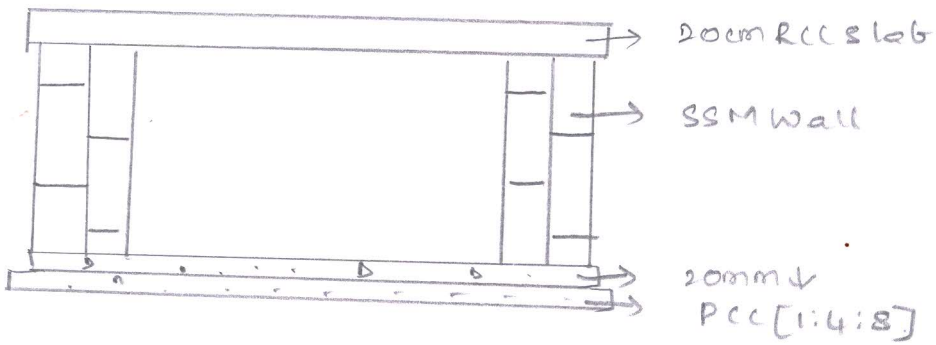
Assistant Executive Engineer.
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

Asst.Ly.N.D
AE(W9)

Name of Work:- Improvements of roads and drains SC colony at Kempapura in Ward No: 07, Byatarayana-pura, Yadigehalli sub-division.



CROSS-SECTION OF ROAD



CROSS-SECTION OF CULVERT

AE (W)